

In the claims:

For the convenience of the Examiner, all claims being examined, whether or not amended, are presented below.

Please cancel, without prejudice, claims 13-39.

Please add new claims 51-58.

1. **(Currently amended)** A method for promoting maturation of glucose responsive the growth of pancreatic cells, comprising contacting pancreatic cells with a composition including comprising an amount of a peptidyl peptide YY (PYY) or an agonist effective to promote the maturation of glucose responsive pancreatic cells thereof.
2. **(Currently amended)** A method for maintaining the glucose-responsiveness reducing degeneration of pancreatic cells, tissue comprising contacting the pancreatic cells tissue with a composition including comprising an amount of a peptidyl peptide YY (PYY) or an agonist effective to maintain glucose-responsiveness of pancreatic cells thereof.
3. **(Currently amended)** The method of claim 1 or 2, wherein the pancreatic cells or tissue include exocrine cells.
4. **(Currently amended)** The method of claim 1 or 2, wherein the pancreatic cells or tissue include endocrine cells.
5. **(Currently amended)** The method of claim 1 or 2, wherein the pancreatic cells or tissue include α , β , δ , or ϕ -cells.
6. **(Currently amended)** The method of claim 1 or 2, wherein the pancreatic cells include tissue includes insulin-producing islet cells islets.
7. **(Currently amended)** The method of claim 1 or 2, wherein said peptidyl PYY agonist comprises a polypeptide encodable by a nucleic acid that hybridizes under stringent conditions,

including a wash step of 0.2X SSC at 65 °C, to SEQ ID NO: 1 which utilizes a PYY peptide identical or homologous to SEQ ID No. 2, or an active fragment thereof.

8-12. (Withdrawn)

13-39. (Cancelled)

40-50. (Withdrawn)

51. (New) The method of claim 1 or 2, wherein said peptidyl PYY agonist comprises a polypeptide at least 90% identical to SEQ ID NO: 2.

52. (New) The method of claim 7, wherein said peptidyl PYY agonist comprises a polypeptide encodable by SEQ ID NO: 1.

53. (New) A method for promoting maturation of glucose responsive pancreatic cells, comprising contacting pancreatic cells with a composition comprising an amount of a peptidyl peptide YY (PYY) agonist effective to promote the maturation of glucose responsive pancreatic cells, wherein said peptidyl PYY agonist comprises a polypeptide encodable by a nucleic acid that hybridizes under stringent conditions, including a wash step of 0.2X SSC at 65 °C, to SEQ ID NO: 1.

54. (New) The method of claim 53, wherein said peptidyl PYY agonist comprises a polypeptide at least 90% identical to SEQ ID NO: 2.

55. (New) A method for maintaining the glucose-responsiveness of pancreatic cells, comprising contacting the pancreatic cells with a composition comprising an amount of a peptidyl peptide YY (PYY) agonist effective to maintain the glucose-responsiveness of pancreatic cells, wherein said peptidyl PYY agonist comprises a polypeptide encodable by a nucleic acid that hybridizes under stringent conditions, including a wash step of 0.2X SSC at 65 °C, to SEQ ID NO: 1.

56. (New) The method of claim 55, wherein said peptidyl PYY agonist comprises a polypeptide at least 90% identical to SEQ ID NO: 2.

57. (New) A method for promoting maturation of glucose responsive pancreatic cells, comprising contacting pancreatic cells with a composition comprising an amount of a peptide YY (PYY) effective to promote the maturation of glucose responsive pancreatic cells.

58. (New) A method for maintaining the glucose-responsiveness of pancreatic cells, comprising contacting the pancreatic cells with a composition comprising an amount of a peptide YY (PYY) effective to maintain the glucose-responsiveness of pancreatic cells.
